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 ISSN 0013-788X

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[1961] 7p. 13 refs.  
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Trans. of Acta Physicochimica U. R. S. S., 1944,  
v. 19, p. 266-285.

DESCRIPTORS: \*Acetates, \*Vinyl radicals, Photo-  
chemistry, Polymerization.

The photopolymerization of vinyl acetate in mixtures  
with ethyl acetate and benzene has been investigated.  
The rate of photopolymerization of pure vinyl acetate  
and in mixture with ethyl acetate is proportional to the  
square root of the intensity of incident light. A peculiar  
relation is established between the ratio  $V/\sqrt{I_0}$  and the  
concentration of vinyl acetate. The temperature de-  
pendence of the rate of polymerization corresponds to  
an activation energy of 6.3 kg cal. The length of the  
molecular chain is shown to be proportional to the  
(Chemistry--Physical, TT, v. 6, no. 7)      (over)

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